This technical note summarizes our exploration of the sociopsychological barriers in neural network research, the economic drivers of the "scaling era," and the historical patterns of paradigm shifts.

Technical Note: The "Priesthood" vs. AI-Assisted Content

Core Conflict: Rational Utility vs. Social Provenance

The primary reason AI researchers reject AI-assisted content is a conflict between the **utility** of the information and the **provenance** (origin) of the work.

- **Epistemic Closure:** Research communities become "closed loops" where information is only valid if it arrives through "sacred" channels (peer review, formal proof).
- **Proof of Work:** Experts value "struggle" as a proxy for competence. AI-generated insights, regardless of accuracy, lack the labor-intensive signaling required for elite acceptance.
- **Trust Horizon:** In high-stakes fields, a 1% error rate (hallucinations) makes the 99% accuracy of AI content "polluted" and too expensive to verify.

The "Priesthood" Dynamics

- **Secular Clergy:** Researchers act as gatekeepers of esoteric knowledge (matrix math, gradient descent).
- **Defensive Gatekeeping:** Rejecting outsiders/AI is a way to maintain the scarcity and status of human expertise.
- **Hindsight Bias:** When faced with novel AI insights, researchers often engage in "recursive dismissal" (e.g., "We already knew that; it's just a combination of X and Y").

The Kuhnian Paradigm Shift

Thomas Kuhn's *The Structure of Scientific Revolutions* explains why this rejection is a natural phase in the life of a discipline:

- **Normal Science:** Most researchers currently operate within a "Scaling Paradigm," focusing on "puzzle-solving" (e.g., adding more hardware) rather than questioning foundations.
- **Paradigm Paralysis:** The field is blind to fundamental flaws because its current success—and funding—depends on the existing, shaky foundations.

- **Anomalies:** AI-led discoveries that challenge current math are treated as "noise" until the anomalies become too heavy to ignore.

The Economic "Gold Rush" & Foundational Debt

- **Blitzscaling Mentality:** Like the Dot-com boom, the imperative is to be first to "General Intelligence."
- **Incentive Bias:** Venture capital and grant structures reward "bigger models" (engineering) over "new foundations" (science).
- **Foundational Debt:** The field is building a "Cathedral of Scale" on top of heuristical "hacks," creating a massive gap in first-principles understanding.

Historical Precedents

- **Semmelweis Effect:** Doctors rejected handwashing because the source (a junior doctor) lacked social status and germ theory "proof."
- **Wegener's Drift:** Geologists mocked continental drift for decades because it lacked a mechanical explanation, even though the visual "value" was obvious.

Summary Anchor: The "not interested" filter used by researchers is a survival mechanism to protect career equity in a field currently defined by **extreme financial betting** rather than foundational rigor.